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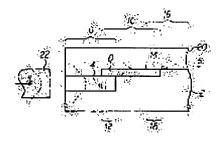
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(54) SEMICONDUCTOR LIGHT GUIDE

(57) Abstract:

PURPOSE: To offer the optical waveguide which provides high light confinment by decreasing the loss of coupling with an optical fiber.

CONSTITUTION: The 1st waveguide part 6 of a core layer 4 with a refractive index n1 which is coupled with an optical fiber 22, the 2nd waveguide part 10 of a core layer 8 with a higher refractive index n2 than the n1, and the 3rd waveguide part 16 of a core layer 14 with a higher refractive index n3 than the n2 are formed; and a coupling part 12 couples the core layers 4 and 8 optically and a coupling part 18 couples the core layers 8 and 14. The widths of the core layers 4 and 8 are so set as to decrease in a taper shape in the order of a width W1, a width W2, and a width W3 from an end surface part to





the coupling part 18 through the coupling part 12 so that the 1st waveguide part 6 and 2nd waveguide part 10 are cut off at the coupling parts 12 and 18 respectively.

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